

RSNA QIBA SWS: System Dependencies

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Agenda

- Review previous call summary
- Phantom study:
 - Summary of data collection / reporting
 - Identifying differences from a system dependency standpoint
 - Resolving these differences
 - Sharing of raw data for processing by other groups
- IEEE & RSNA abstract update
- Literature database -> manuscript

Previous Call Summary

(previous call summary to be displayed)

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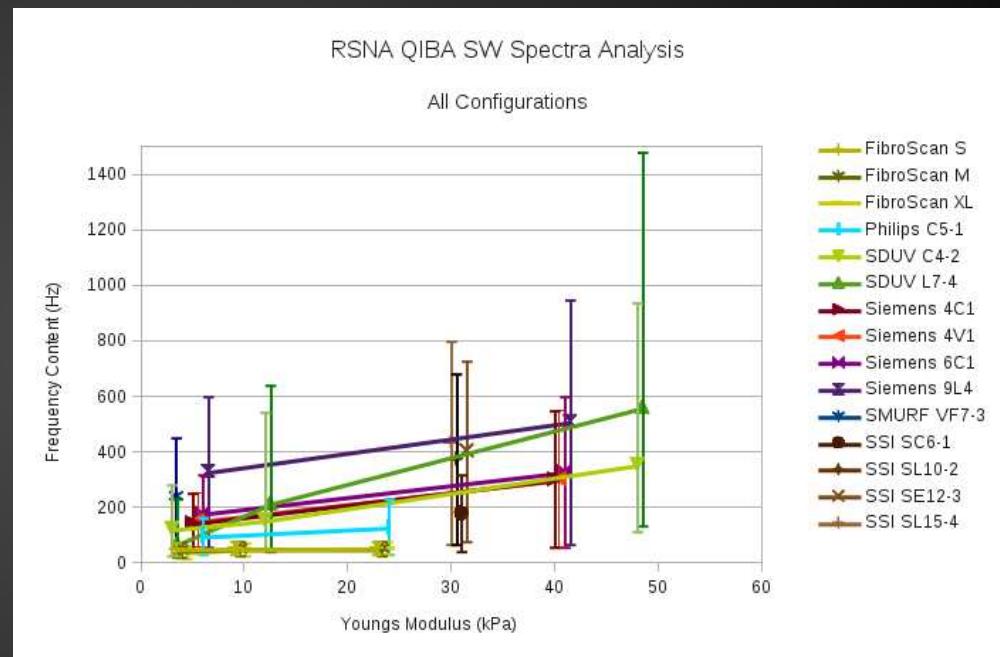
(previous call summary to be displayed)

CIRS Phantom Study

- Summary of site data collection / analysis
- How do we resolve differences?
 - Delineate differences between sites / systems
 - Compare with Duke measurements for a given phantom pair
- Overview of how Duke tested for focal configuration dependencies (Kathy)

Spectral Content

- One specific difference could be shear wave spectral content
 - Remember what we have done...
 - Now all sites have similar phantoms; repeat spectral measurements?
 - Common methodology?
 - Duke characterization of spectral differences (Kathy)





Algorithmic Differences?

- What role does the SWS estimation algorithm play?
- Research sites:
 - Share data from CIRS phantom acquisitions
 - Allow other groups to reconstruct SWS using "in house" methods
 - Duke can host ~300 GB of raw data from all phantoms
- Provide equivalent simulation data for the raw experimental phantom data

IEEE & RSNA Abstracts

- Tim Hall wrote an abstract for presentation at IEEE Ultrasonics Symposium (July 2013)
 - <https://docs.google.com/file/d/1u-I1CdikJ8ZTtIHGNqR5NMqX09zDdgkpp9apCFyPFpC45kKpnCnVdmxe6LHc/edit?usp=sharing>
- Brian Garra is writing an abstract for RSNA (due 04/10; November 2013)

Literature Database

- Clinical subcommittee will be leading an effort to prepare a review manuscript of the current literature
- Mendeley database "up-to-date"
- Data-mining spreadsheet: [https://docs.google.com/spreadsheet/ccc?
key=0Am2eCp6q_J7HdERRR1UwMGRJZjM
3aWVQMzhJNDZvX2c&usp=sharing](https://docs.google.com/spreadsheet/ccc?key=0Am2eCp6q_J7HdERRR1UwMGRJZjM3aWVQMzhJNDZvX2c&usp=sharing)
- Our task: determine the useful system dependencies to extract from the data

Thank you!

Thank you Julie and RSNA staff!!

